



# **STIC Search Report**

## **Biotech-Chem Library**

**STIC Database Tracking Number: 106744**

**TO: Ted Criares**  
**Location: CM-1/2A03/2B19**  
**Art Unit: 1617**  
**Thursday, October 30, 2003**

**Case Serial Number: 10/086248**

**From: Barb O'Bryen**  
**Location: Biotech-Chem Library**  
**CM1-6A05**  
**Phone: 308-4291** *BOB*

**barbara.obryen@uspto.gov**

### **Search Notes**

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# SEARCH REQUEST FORM

Requestor's  
Name: Ted CRIARES

Serial Number: 10/086,248

Date: 10/23/03

Phone: 308-4607

Art Unit: 1617

SPIE Room CM-2

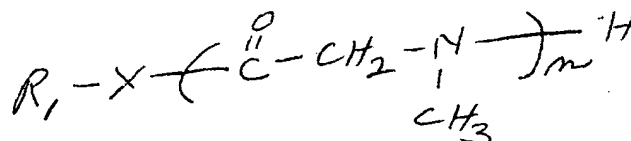
Cruces Rm CM1-20A03

**Search Topic:**

Please write a detailed statement of search topic. Describe specifically as possible the subject matter to be searched. Define any terms that may have a special meaning. Give examples or relevant citations, authors, keywords, etc., if known. For sequences, please attach a copy of the sequence. You may include a copy of the broadest and/or most relevant claim(s).

please search compound of


### Formula



$x = -0-, -5-, \text{ or } NR.$

$$R = H$$

$R_1$  = Saturated or unsaturated hydrocarbon from 1-40 carbons

~~$n = 3-500$~~   $1-4000$  or 

as a moisturizing agent -

See cl 1

**STAFF USE ONLY**

Date completed: 10-30-03

Searcher: POB / S. Hansen

Terminal time: 165

Elapsed time: 90 min

CPU time:

**Total time:**

Number of Searches:

Number of Databases:

## Search Site

STIC

CM-1

Pre-S

### Type of Search

N.A. Sequence

### A.A. Sequence

## 2 Structure

### Bibliographic

## Vendors

IG

STN

## Dialog

APS

Geninfo

SDC

DARC/Questel

Other

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# STIC SEARCH RESULTS FEEDBACK FORM

## Biotech-Chem Library

Questions about the scope or the results of the search? Contact *the searcher or contact*:

Mary Hale, Information Branch Supervisor  
308-4258, CM1-1E01

## Voluntary Results Feedback Form

➤ I am an examiner in Workgroup:  Example: 1610

➤ Relevant prior art **found**, search results used as follows:

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature  
(journal articles, conference proceedings, new product announcements etc.)

➤ Relevant prior art **not found**:

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Results were not useful in determining patentability or understanding the invention.

Comments:

Drop off or send completed forms to STIC/Biotech-Chem Library CM1 - Circ. Desk



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=> fil reg; d stat que 124; d stat que 127; fil cap1; d que nos 139; d que nos 140; d que nos 141; d que nos 149; s 139 or 140 or 141 or 149; fil uspatf; d que nos 152  
FILE 'REGISTRY' ENTERED AT 12:56:07 ON 30 OCT 2003  
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 28 OCT 2003 HIGHEST RN 610253-59-3  
DICTIONARY FILE UPDATES: 28 OCT 2003 HIGHEST RN 610253-59-3

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

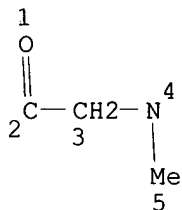
Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

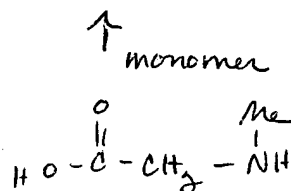
Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

L20 1 SEA FILE=REGISTRY ABB=ON "GLYCINE, N-METHYL-, HOMOPOLYMER"/CN  
L\*\*\* ANALYZE L\*\*\* 1- RN LNK\$ : 2 TERMS  
L24 2 SEA FILE=REGISTRY ABB=ON L\*\*\* OR L20

L6 985271 SEA FILE=REGISTRY ABB=ON PMS/CI  
L8 STR



SRU



NODE ATTRIBUTES:  
DEFAULT MLEVEL IS ATOM  
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
RING(S) ARE ISOLATED OR EMBEDDED  
NUMBER OF NODES IS 5

STEREO ATTRIBUTES: NONE

L10 358 SEA FILE=REGISTRY SUB=L6 SSS FUL L8  
L11 91 SEA FILE=REGISTRY ABB=ON L10 AND 1/NC  
L18 52 SEA FILE=REGISTRY ABB=ON L11 AND PA/PCT  
L22 48 SEA FILE=REGISTRY ABB=ON L18 NOT (METHYLETHYL OR PIPERAZINEDIYL L OR PYRROLIDINEDIYL?)  
L\*\*\* ANALYZE L\*\*\* 1- RN LNK\$ : 5 TERMS  
L27 51 SEA FILE=REGISTRY ABB=ON L\*\*\* OR L22

FILE 'CAPLUS' ENTERED AT 12:56:07 ON 30 OCT 2003  
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FILE COVERS 1907 - 30 Oct 2003 VOL 139 ISS 18  
FILE LAST UPDATED: 29 Oct 2003 (20031029/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

L6 985271 SEA FILE=REGISTRY ABB=ON PMS/CI  
L8 STR  
L10 358 SEA FILE=REGISTRY SUB=L6 SSS FUL L8  
L11 91 SEA FILE=REGISTRY ABB=ON L10 AND 1/NC  
L18 52 SEA FILE=REGISTRY ABB=ON L11 AND PA/PCT  
L20 1 SEA FILE=REGISTRY ABB=ON "GLYCINE, N-METHYL-, HOMOPOLYMER"/CN  
  
L22 48 SEA FILE=REGISTRY ABB=ON L18 NOT (METHYLETHYL OR PIPERAZINEDIYL OR PYRROLIDINEDIYL?)  
L\*\*\* ANALYZE L\*\*\* 1- RN LNK\$ : 2 TERMS  
L24 2 SEA FILE=REGISTRY ABB=ON L\*\*\* OR L20  
L\*\*\* ANALYZE L\*\*\* 1- RN LNK\$ : 5 TERMS  
L27 51 SEA FILE=REGISTRY ABB=ON L\*\*\* OR L22  
L29 84 SEA FILE=CAPLUS ABB=ON L24  
L30 101 SEA FILE=CAPLUS ABB=ON L27  
L31 101 SEA FILE=CAPLUS ABB=ON L29 OR L30  
L39 2 SEA FILE=CAPLUS ABB=ON L31(L)COS/RL

*Role - Cos = cosmetic use*

L6 985271 SEA FILE=REGISTRY ABB=ON PMS/CI  
L8 STR  
L10 358 SEA FILE=REGISTRY SUB=L6 SSS FUL L8  
L11 91 SEA FILE=REGISTRY ABB=ON L10 AND 1/NC  
L18 52 SEA FILE=REGISTRY ABB=ON L11 AND PA/PCT  
L20 1 SEA FILE=REGISTRY ABB=ON "GLYCINE, N-METHYL-, HOMOPOLYMER"/CN  
  
L22 48 SEA FILE=REGISTRY ABB=ON L18 NOT (METHYLETHYL OR PIPERAZINEDIYL OR PYRROLIDINEDIYL?)  
L\*\*\* ANALYZE L\*\*\* 1- RN LNK\$ : 2 TERMS  
L24 2 SEA FILE=REGISTRY ABB=ON L\*\*\* OR L20  
L\*\*\* ANALYZE L\*\*\* 1- RN LNK\$ : 5 TERMS  
L27 51 SEA FILE=REGISTRY ABB=ON L\*\*\* OR L22  
L29 84 SEA FILE=CAPLUS ABB=ON L24  
L30 101 SEA FILE=CAPLUS ABB=ON L27  
L31 101 SEA FILE=CAPLUS ABB=ON L29 OR L30  
L40 4 SEA FILE=CAPLUS ABB=ON L31(L)(THU OR PAC OR DMA OR PKT OR BAC)/RL

*Roles - THU - therapeutic use, PAC - pharmacologic activity, DMA - drug mechanism of action, PKT - pharmacokinetics, BAC - biological activity*  
Searched by Barb O'Bryen, STIC 308-4291



L6 985271 SEA FILE=REGISTRY ABB=ON PMS/CI  
L8 STR  
L10 358 SEA FILE=REGISTRY SUB=L6 SSS FUL L8  
L11 91 SEA FILE=REGISTRY ABB=ON L10 AND 1/NC  
L18 52 SEA FILE=REGISTRY ABB=ON L11 AND PA/PCT  
L20 1 SEA FILE=REGISTRY ABB=ON "GLYCINE, N-METHYL-, HOMOPOLYMER"/CN  
  
L22 48 SEA FILE=REGISTRY ABB=ON L18 NOT (METHYLETHYL OR PIPERAZINEDIYL  
L OR PYRROLIDINEDIYL?)  
L\*\*\* ANALYZE L\*\*\* 1- RN LNK\$ : 2 TERMS  
L24 2 SEA FILE=REGISTRY ABB=ON L\*\*\* OR L20  
L\*\*\* ANALYZE L\*\*\* 1- RN LNK\$ : 5 TERMS  
L27 51 SEA FILE=REGISTRY ABB=ON L\*\*\* OR L22  
L29 84 SEA FILE=CAPLUS ABB=ON L24  
L30 101 SEA FILE=CAPLUS ABB=ON L27  
L31 101 SEA FILE=CAPLUS ABB=ON L29 OR L30  
L32 107990 SEA FILE=CAPLUS ABB=ON 62/SC, SX - *Section code - Cosmetics & essential oils*  
L33 1791495 SEA FILE=CAPLUS ABB=ON PHARMAC?/SC, SX  
L41 16 SEA FILE=CAPLUS ABB=ON L31 AND (L32 OR L33)

L6 985271 SEA FILE=REGISTRY ABB=ON PMS/CI  
L8 STR  
L10 358 SEA FILE=REGISTRY SUB=L6 SSS FUL L8  
L11 91 SEA FILE=REGISTRY ABB=ON L10 AND 1/NC  
L18 52 SEA FILE=REGISTRY ABB=ON L11 AND PA/PCT  
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L22 48 SEA FILE=REGISTRY ABB=ON L18 NOT (METHYLETHYL OR PIPERAZINEDIYL  
L OR PYRROLIDINEDIYL?)  
L\*\*\* ANALYZE L\*\*\* 1- RN LNK\$ : 2 TERMS  
L24 2 SEA FILE=REGISTRY ABB=ON L\*\*\* OR L20  
L\*\*\* ANALYZE L\*\*\* 1- RN LNK\$ : 5 TERMS  
L27 51 SEA FILE=REGISTRY ABB=ON L\*\*\* OR L22  
L29 84 SEA FILE=CAPLUS ABB=ON L24  
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L31 101 SEA FILE=CAPLUS ABB=ON L29 OR L30  
L34 42269 SEA FILE=CAPLUS ABB=ON COSMETICS/CT  
L35 86990 SEA FILE=CAPLUS ABB=ON SKIN/CW  
L36 4768 SEA FILE=CAPLUS ABB=ON MUCOUS?/OBI  
L38 3520 SEA FILE=CAPLUS ABB=ON MOISTURI?/OBI  
L44 20909 SEA FILE=CAPLUS ABB=ON KERATIN?/OBI  
L46 1541 SEA FILE=CAPLUS ABB=ON HUMECTANT?/OBI  
L48 112329 SEA FILE=CAPLUS ABB=ON HYDRAT?/OBI  
L49 7 SEA FILE=CAPLUS ABB=ON L31 AND ((L34 OR L35 OR L36) OR L38 OR  
L44 OR L46 OR L48)

L54 16 L39 OR L40 OR L41 OR L49

FILE 'USPATFULL' ENTERED AT 12:56:07 ON 30 OCT 2003  
CA INDEXING COPYRIGHT (C) 2003 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 28 Oct 2003 (20031028/PD)  
FILE LAST UPDATED: 28 Oct 2003 (20031028/ED)  
HIGHEST GRANTED PATENT NUMBER: US6640338  
HIGHEST APPLICATION PUBLICATION NUMBER: US2003200588

CA INDEXING IS CURRENT THROUGH 28 Oct 2003 (20031028/UPCA)  
 ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 28 Oct 2003 (20031028/PD)  
 REVISED CLASS FIELDS (/NCL) LAST RELOADED: Aug 2003  
 USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Aug 2003

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>>> USPAT2 is now available. USPATFULL contains full text of the <<<
>>> original, i.e., the earliest published granted patents or <<<
>>> applications. USPAT2 contains full text of the latest US <<<
>>> publications, starting in 2001, for the inventions covered in <<<
>>> USPATFULL. A USPATFULL record contains not only the original <<<
>>> published document but also a list of any subsequent <<<
>>> publications. The publication number, patent kind code, and <<<
>>> publication date for all the US publications for an invention <<<
>>> are displayed in the PI (Patent Information) field of USPATFULL <<<
>>> records and may be searched in standard search fields, e.g., /PN, <<<
>>> /PK, etc. <<<
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>>> USPATFULL and USPAT2 can be accessed and searched together <<<
>>> through the new cluster USPATALL. Type FILE USPATALL to <<<
>>> enter this cluster. <<<
>>> Use USPATALL when searching terms such as patent assignees, <<<
>>> classifications, or claims, that may potentially change from <<<
>>> the earliest to the latest publication. <<<
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This file contains CAS Registry Numbers for easy and accurate substance identification.

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L6      985271 SEA FILE=REGISTRY ABB=ON PMS/CI
L8      STR
L10     358 SEA FILE=REGISTRY SUB=L6 SSS FUL L8
L11     91 SEA FILE=REGISTRY ABB=ON L10 AND 1/NC
L18     52 SEA FILE=REGISTRY ABB=ON L11 AND PA/PCT
L20     1 SEA FILE=REGISTRY ABB=ON "GLYCINE, N-METHYL-, HOMOPOLYMER"/CN

L22     48 SEA FILE=REGISTRY ABB=ON L18 NOT (METHYLETHYL OR PIPERAZINEDIY
      L OR PYRROLIDINEDIYL?)
L***    ANALYZE L*** 1- RN LNK$ : 2 TERMS
L24     2 SEA FILE=REGISTRY ABB=ON L*** OR L20
L***    ANALYZE L*** 1- RN LNK$ : 5 TERMS
L27     51 SEA FILE=REGISTRY ABB=ON L*** OR L22
L50     8 SEA FILE=USPATFULL ABB=ON L24 OR L27
L51     57749 SEA FILE=USPATFULL ABB=ON (SKIN OR COSMETIC? OR MUCOUS? OR
      KERATIN? OR HUMECTANT? OR MOISTURI?)/IT,TI,AB,CLM
L52     2 SEA FILE=USPATFULL ABB=ON L50 AND L51
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 PROCESSING COMPLETED FOR L54  
 PROCESSING COMPLETED FOR L52

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L55     18 DUP REM L54 L52 (0 DUPLICATES REMOVED)
      ANSWERS '1-16' FROM FILE CAPLUS
      ANSWERS '17-18' FROM FILE USPATFULL
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=> d ibib abs hitstr 1-18; fil hom

L55 ANSWER 1 OF 18 CAPLUS COPYRIGHT 2003 ACS on STN  
 ACCESSION NUMBER: 2003:422241 CAPLUS  
 DOCUMENT NUMBER: 139:11864  
 TITLE: Disilanes, their polymers, and thickeners and cosmetics containing the polymers  
 INVENTOR(S): Sakakibara, Makoto  
 PATENT ASSIGNEE(S): Kao Corp., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003160663	A2	20030603	JP 2001-362134	20011128
PRIORITY APPLN. INFO.:			JP 2001-362134	20011128

AB The disilanes are compds. in which alkoxysilyl groups are bound to both ends of mono- or poly(amino acids) (COCR1R2NR3)<sub>n</sub> [R1, R2 = H, (substituted) C1-22 linear or branched alkyl, alkenyl, C3-22 cycloalkyl, C7-22 aralkyl, C6-22 aryl; R1 or R2 and R3 may form ring; n = 1-10,000] via divalent (heteroatom-contg.) hydrocarbon groups. N-methylglycine-N-carboxyanhydride was polymd. in CH<sub>2</sub>Cl<sub>2</sub> in the presence of .gamma.-aminopropyltrimethoxysilane and treated with .gamma.-isocyanatopropyltriethoxysilane to give bis(alkoxysilyl)-terminated poly(N-methylglycine) (mol. wt. 36,000), which was hydrolyzed and polycondensed in a MeOH-aq. HCl mixt. to give high-mol.-wt. poly(N-methylglycine) (mol. wt. 1,500,000) showing viscosity (0.5 wt.% aq. soln.) 12,500 mPa-s. A cosmetic lotion contg. EtOH 5.0, glycerin 3.0, polyethylene glycol 4.0, polyoxyethylene oleyl ether 0.3, polyoxyethylene hydrogenated castor oil 0.2, high-mol.-wt. poly(N-methylglycine) 0.15, Zn p-phenolsulfonate 0.2, and H<sub>2</sub>O to 100 wt.% showed good emulsion stability at 50.degree. for 1 mo and gave a good feel to the skin.

IT 25951-24-ODP, Poly(N-methylglycine), bis(alkoxysilyl)-terminated, homopolymer  
 RL: COS (Cosmetic use); IMF (Industrial manufacture); MOA (Modifier or additive use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (crosslinked; prepn. of bis(alkoxysilyl)-terminated (poly)amino acids and their polymers for thickeners and emulsion stabilizers for cosmetics)

RN 25951-24-0 CAPLUS  
 CN Glycine, N-methyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 107-97-1  
 CMF C3 H7 N O2

MeNH-CH<sub>2</sub>-CO<sub>2</sub>H

IT 534599-59-2P  
 RL: COS (Cosmetic use); IMF (Industrial manufacture); MOA (Modifier or additive use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (prepn. of bis(alkoxysilyl)-terminated (poly)amino acids and their polymers for thickeners and emulsion stabilizers for cosmetics)

RN 534599-59-2 CAPLUS  
 CN Poly[(methylimino)(1-oxo-1,2-ethanediyl)], .alpha.-[2-oxo-2-[[3-

(trimethoxysilyl)propyl]amino]ethyl]-.omega.-[methyl[[[3-(triethoxysilyl)propyl]amino]carbonyl]amino]-, homopolymer (9CI) (CA INDEX NAME)

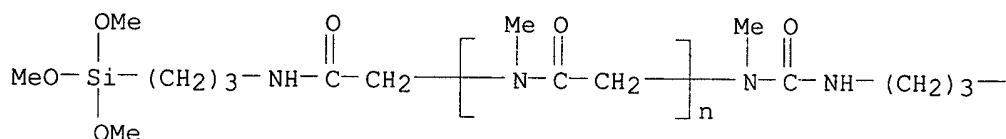
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CRN 534599-57-0

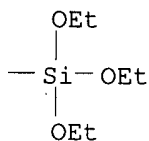
CMF (C3 H5 N O)<sub>n</sub> C19 H43 N3 O8 Si2

CCI PMS

PAGE 1-A



PAGE 1-B



IT 534599-57-0P

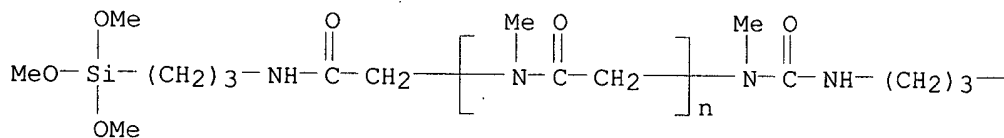
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of bis(alkoxysilyl)-terminated (poly)amino acids and their polymers for thickeners and emulsion stabilizers for cosmetics)

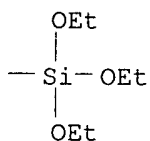
RN 534599-57-0 CAPLUS

CN Poly[(methylimino)(1-oxo-1,2-ethanediyl)], .alpha.-[2-oxo-2-[[3-(trimethoxysilyl)propyl]amino]ethyl]-.omega.-[methyl[[[3-(triethoxysilyl)propyl]amino]carbonyl]amino]- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



L55 ANSWER 2 OF 18 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2002:381333 CAPLUS

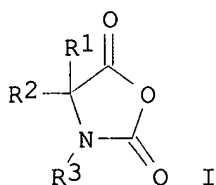
DOCUMENT NUMBER: 136:390743

TITLE: Silanes having poly(amino acid) chain, their preparations, their use as surface treating agents, and cosmetics

Searched by Barb O'Bryen, STIC 308-4291

INVENTOR(S): Sakakibara, Makoto  
 PATENT ASSIGNEE(S): KAO Corp., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 8 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002146011	A2	20020522	JP 2000-351150	20001117
PRIORITY APPLN. INFO.: GI			JP 2000-351150	20001117



AB Silanes which have (a) polyamino acid chain contg. (COCR1R2NR3) (R1-R3 = H, C1-22 linear or branched alkyl, C6-22 cycloalkyl, C7-22 aralkyl, C6-22 aryl, which may have heteroatom-contg. substituent; R1 or R2 and R3 may be bonded together to form ring) via (heteroarom-contg.) hydrocarbylene and (b) alkoxy and/or OH are useful as surface treatment agents. Also claimed are cosmetics contg. inorg. or org. materials treated with the agents. The silanes are prepd. by treatment of silanes having (c) primary amino- and/or secondary amino-contg. hydrocarbyl and (d) alkoxy and/or OH with .alpha.-amino acid N-carboxyanhydrides I (R1-R3 = same as above). MeOH suspension of mica was treated with MeOH soln. of (EtO)3Si(CH2)3NH(COCH2NMe)nH (prepd. from .gamma.-aminopropyltriethoxysilane and N-methylglycine-N-carboxy anhydride) under reflux at 70.degree. for 10 h to give coated mica. A foundation contg. the coated mica was formulated.

IT 25951-24-ODP, Poly(N-methylglycine), reaction products with (aminopropyl)triethoxysilane 427899-50-1P 427899-51-2P  
 RL: COS (Cosmetic use); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (prepn. of alkoxy or hydroxy-silanes having poly(amino acid) chain as surface treating agents for cosmetics)

RN 25951-24-0 CAPLUS

CN Glycine, N-methyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

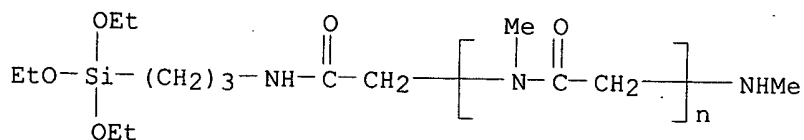
CRN 107-97-1

CMF C3 H7 N O2

MeNH-CH2-CO2H

RN 427899-50-1 CAPLUS

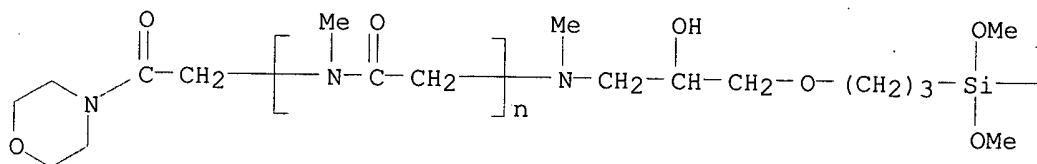
CN Poly[(methylimino)(1-oxo-1,2-ethanediyl)], .alpha.-[2-oxo-2-[[3-(triethoxysilyl)propyl]amino]ethyl]-.omega.-(methylamino)- (9CI) (CA INDEX NAME)



RN 427899-51-2 CAPLUS

CN Poly[(methylimino)(1-oxo-1,2-ethanediyl)], .alpha.-[2-(4-morpholinyl)-2-oxoethyl]-.omega.-[[2-hydroxy-3-[3-(trimethoxysilyl)propoxy]propyl]methylamino]- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B

— OMe

L55 ANSWER 3 OF 18 CAPLUS COPYRIGHT 2003 ACS on STN  
 ACCESSION NUMBER: 2002:384341 CAPLUS  
 DOCUMENT NUMBER: 136:386877  
 TITLE: Macro monomer containing polyamino acid segments and their copolymers for cosmetics  
 INVENTOR(S): Sakakibara, Makoto  
 PATENT ASSIGNEE(S): Kao Corp., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002146010	A2	20020522	JP 2000-351149	20001117
PRIORITY APPLN. INFO.:			JP 2000-351149	20001117

AB The macro monomer  $\text{H}_2\text{C}:\text{C}(\text{R}_1)\text{CO}[\text{N}(\text{R}_2)\text{C}(\text{R}_3)(\text{R}_4)\text{CO}]_n\text{X}$  ( $\text{R}_1-4 = \text{H}$ ,  $\text{C}_1-22$  linear or branched alkyl,  $\text{C}_6-22$  cycloalkyl,  $\text{C}_7-22$  aralkyl,  $\text{C}_6-22$  aryl;  $n = 1-500$ ;  $\text{X} = \text{hetero atom}$ ) is prepd. by reaction of a polyamino acid having repeating union  $-\text{N}(\text{R}_2)\text{C}(\text{R}_3)(\text{R}_4)\text{CO}-$  (e.g. homopolymer of N-methylglycine N-carboxy anhydride) with a polymerizable unsatd. group-contg. carboxylic acid or its derivs (e.g., acrylic acid chloride). The homopolymers or copolymers obtained from the macro monomers are useful for cosmetics.

IT 25951-24-ODP, Poly(N-Methylglycine), acrylates, polymers  
 26521-10-8DP, Poly(N-Methylglycine), sru, acrylates, polymers  
 RL: BUU (Biological use, unclassified); IMF (Industrial manufacture); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (macro monomer contg. polyamino acid segments and their copolymers for cosmetics)

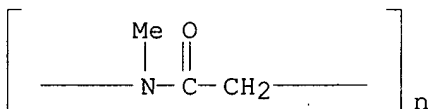
RN 25951-24-0 CAPLUS  
CN Glycine, N-methyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 107-97-1  
CMF C3 H7 N O2

MeNH-CH<sub>2</sub>-CO<sub>2</sub>H

RN 26521-10-8 CAPLUS  
CN Poly[(methyylimino)(1-oxo-1,2-ethanediyl)] (9CI) (CA INDEX NAME)



IT 25951-24-0DP, Poly(N-Methylglycine), reaction products with acrylic chloride 26521-10-8DP, Poly(N-Methylglycine), sru, reaction products with acrylic chloride  
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)  
(macro monomer contg. polyamino acid segments and their copolymers for cosmetics)

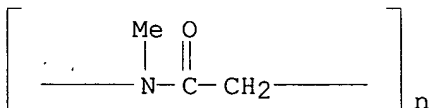
RN 25951-24-0 CAPLUS  
CN Glycine, N-methyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 107-97-1  
CMF C3 H7 N. O2

MeNH-CH<sub>2</sub>-CO<sub>2</sub>H

RN 26521-10-8 CAPLUS  
CN Poly[(methyylimino)(1-oxo-1,2-ethanediyl)] (9CI) (CA INDEX NAME)



L55 · ANSWER 4 OF 18 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2001:786948 CAPLUS

DOCUMENT NUMBER: 135:322532

TITLE: Use of polyamino acid derivatives for treatment of seborrhea and related skin disorders

INVENTOR(S): Philippe, Michel; Cupferman, Sylvie

PATENT ASSIGNEE(S): L'Oreal, Fr.

SOURCE: Fr. Demande, 17 pp.

CODEN: FRXXBL

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

## PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2804321	A1	20010803	FR 2000-1210	20000128
FR 2804321	B1	20030815		
EP 1123692	A2	20010816	EP 2000-403596	20001219
EP 1123692	A3	20010829		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2001253832	A2	20010918	JP 2001-20137	20010129
US 2001043935	A1	20011122	US 2001-770473	20010129
US 2002164360	A9	20021107		

## PRIORITY APPLN. INFO.:

FR 2000-1210 A 20000128

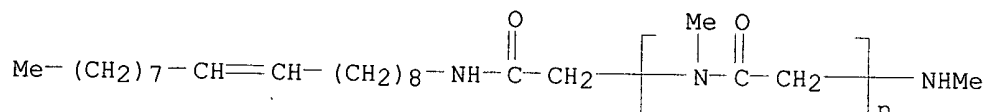
AB Polyamino acid derivs. are prep'd. and used for treatment of seborrhea and related skin disorders. A polyamino acid was prep'd. by the reaction of N-carboxysarcosine anhydride with oleylamine. The antibacterial activity of the polyamino acid against Propionibacteria was studied. A gel contained above polyamino acid 1, xanthan gum 1, glycerin 2, ethanol 20, ethoxylated propoxylated Bu alc. and ethoxylated hydrogenated castor oil 1, fragrance q.s., and water q.s. 100%.

## IT 245354-67-0P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(use of polyamino acid derivs. for treatment of seborrhea and related skin disorders)

RN 245354-67-0 CAPLUS

CN Poly[(methylimino)(1-oxo-1,2-ethanediy)], .alpha.-[2-[[ (9Z)-9-octadecenyl]amino]-2-oxoethyl]-.omega.-(methylamino)- (9CI) (CA INDEX NAME)



L55 ANSWER 5 OF 18 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 2001:786947 CAPLUS

DOCUMENT NUMBER: 135:322530

TITLE: Use of polyamino acids as preservatives in cosmetics and pharmaceuticals

INVENTOR(S): Philippe, Michel; Benard, Sylvie; Cupferman, Sylvie

PATENT ASSIGNEE(S): L'Oreal, Fr.

SOURCE: Fr. Demande, 17 pp.

CODEN: FRXXBL

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

## PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2804286	A1	20010803	FR 2000-1208	20000128
FR 2804286	B1	20020906		
EP 1123653	A1	20010816	EP 2001-400020	20010105
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2001233724	A2	20010828	JP 2001-20136	20010129
US 2001036914	A1	20011101	US 2001-770472	20010129
US 6585962	B2	20030701		



## PRIORITY APPLN. INFO.:

FR 2000-1208

A 20000128

AB Polyamino acids are prepd. and used as preservatives in cosmetics and pharmaceuticals (Markush structure given). A polyamino acid was prepd. by the reaction of N-carboxysarcosine anhydride with 2-octyl dodecylamine. A cosmetic lotion contained above polyamino acid 0.2, Et alc. 20, glycerin 2, ethoxylated propoxylated butanol and ethoxylated hydrogenated castor oil 1, and water q.s. 100%.

IT 120468-76-0P 245354-63-6P 245354-64-7P

245354-67-0P

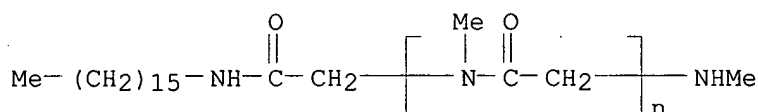
RL: BAC (Biological activity or effector, except adverse); BSU

(Biological study, unclassified); BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(use of polyamino acids as preservatives in cosmetics and pharmaceuticals)

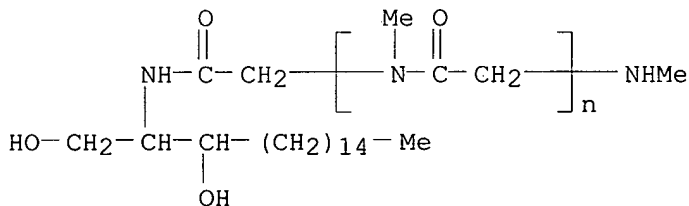
RN 120468-76-0 CAPLUS

CN Poly[(methylimino)(1-oxo-1,2-ethanediyl)], .alpha.-[2-(hexadecylamino)-2-oxoethyl]-.omega.-(methylamino)- (9CI) (CA INDEX NAME)



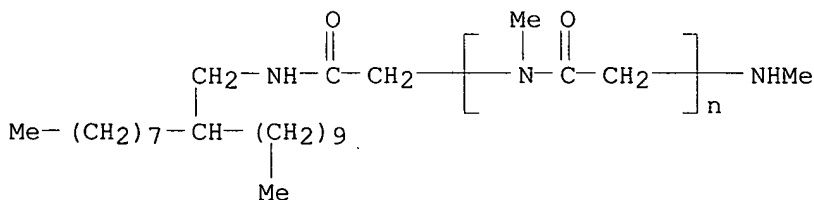
RN 245354-63-6 CAPLUS

CN Poly[(methylimino)(1-oxo-1,2-ethanediyl)], .alpha.-[2-[[2-hydroxy-1-(hydroxymethyl)heptadecyl]amino]-2-oxoethyl]-.omega.-(methylamino)- (9CI) (CA INDEX NAME)



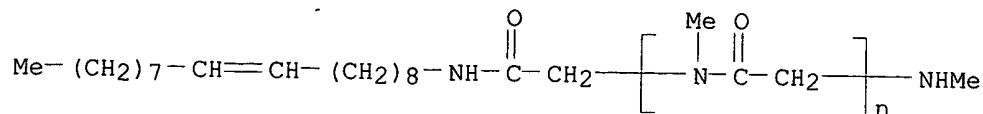
RN 245354-64-7 CAPLUS

CN Poly[(methylimino)(1-oxo-1,2-ethanediyl)], .alpha.-[2-[(2-octyldodecyl)amino]-2-oxoethyl]-.omega.-(methylamino)- (9CI) (CA INDEX NAME)



RN 245354-67-0 CAPLUS

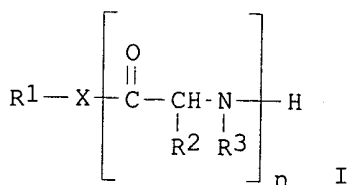
CN Poly[(methylimino)(1-oxo-1,2-ethanediyl)], .alpha.-[2-[[9Z)-9-octadecenyl]amino]-2-oxoethyl]-.omega.-(methylamino)- (9CI) (CA INDEX NAME)



L55 ANSWER 6 OF 18 CAPLUS COPYRIGHT 2003 ACS on STN  
 ACCESSION NUMBER: 1999:640680 CAPLUS  
 DOCUMENT NUMBER: 131:276775  
 TITLE: Poly(amino acid) derivatives and their use in compositions for treating **keratinous** fibers  
 INVENTOR(S): Philippe, Michel; Blaise, Christian  
 PATENT ASSIGNEE(S): L'oreal, Fr.  
 SOURCE: PCT Int. Appl., 36 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: French  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9949837	A1	19991007	WO 1999-FR256	19990205
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
FR 2776510	A1	19991001	FR 1998-3965	19980331
FR 2776510	B1	20021129		
CA 2324302	AA	19991007	CA 1999-2324302	19990205
AU 9922840	A1	19991018	AU 1999-22840	19990205
EP 1066016	A1	20010110	EP 1999-902604	19990205
R: AT, BE, CH, DE, ES, FR, GB, IT, LI, NL, SE				
JP 2002509869	T2	20020402	JP 2000-540804	19990205
PRIORITY APPLN. INFO.:				
			FR 1998-3965	A 19980331
			WO 1999-FR256	W 19990205

GI



AB The use in a cosmetic compn. of at least a poly(amino acid) of general formula,  $\text{R}^1\text{X}[\text{COCH}(\text{R}^2)\text{N}(\text{R}^3)]_n\text{H}$  (I, X = -O-, -S- or -NR<sub>3</sub>; R<sup>1</sup> = a hydrogen atom or a C1-40 alkyl radical; R<sup>2</sup> = a hydrogen atom or an optionally substituted alkyl radical; R<sup>3</sup> represents a hydrogen atom or an alkyl radical; R<sup>4</sup> = a hydrogen atom or a radical such as NH<sub>2</sub>, OH, SH, -CHOHCH<sub>3</sub>, -CONH<sub>2</sub>; n = >1) such that the poly(amino acid) deriv. mol. wt. ranges between 200 and 200000. The invention also concerns the use of said

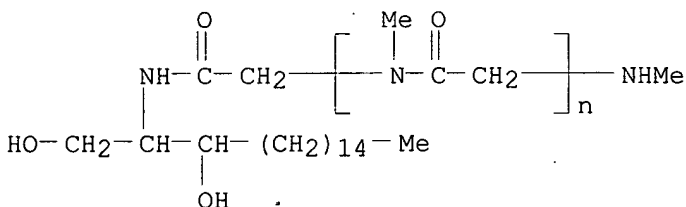
derivs. for keratinous fiber strengthening and care. A suspension fo 46 g of N-carboxyanhydride sarcosine in 250 mL of toluene was added to a suspension of 8.2 g of (D,L-erythro-threo)-2-aminooctadecane -1,3-diol in 250 toluene under N and heated for 3 h at 80.degree.. To the mixt. was added 200 mL ethanol followed by evapn. of solvent to obtain 34.5 g of I (R1 = C15H31CH(OH)CH(CH2OH), X = NH, R2 = H, R3 = CH3, n = 14.2) (II) as a brown powder. A shampoo contained sodium lauryl ether sulfate 60, cocoyl betaine 9, II 0.5, preservative, fragrance, and water q.s. 100 g.

IT 245354-63-6P 245354-64-7P 245354-66-9P  
245354-67-0P 245354-68-1P 245354-69-2P  
245354-70-5P 245354-72-7P 245354-73-8P  
245354-74-9P

RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(poly(amino acid) derivs. and their use in compns. for treating  
keratinous fibers)

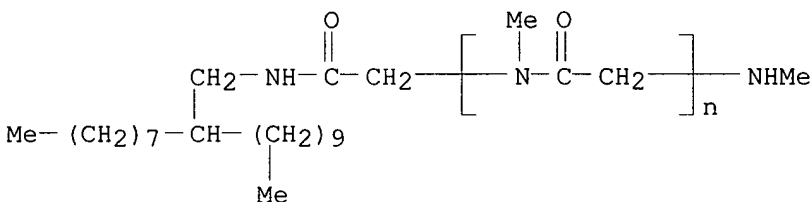
RN 245354-63-6 CAPLUS

CN Poly[(methylimino)(1-oxo-1,2-ethanediyl)], .alpha.-[2-[[2-hydroxy-1-(hydroxymethyl)heptadecyl]amino]-2-oxoethyl]-.omega.-(methylamino)- (9CI)  
(CA INDEX NAME)



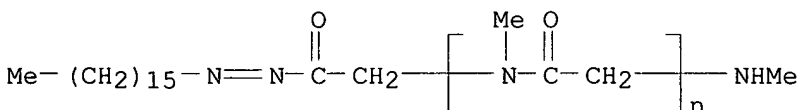
RN 245354-64-7 CAPLUS

CN Poly[(methylimino)(1-oxo-1,2-ethanediyl)], .alpha.-[2-[(2-octyldodecyl)amino]-2-oxoethyl]-.omega.-(methylamino)- (9CI) (CA INDEX NAME)



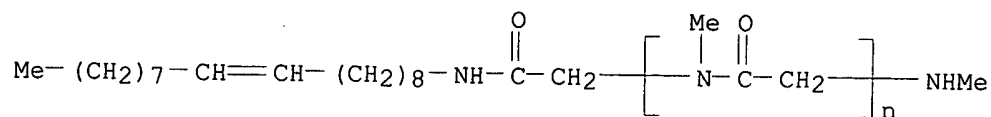
RN 245354-66-9 CAPLUS

CN Poly[(methylimino)(1-oxo-1,2-ethanediyl)], .alpha.-[2-(hexadecylazo)-2-oxoethyl]-.omega.-(methylamino)- (9CI) (CA INDEX NAME)



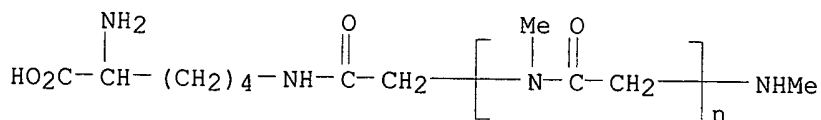
RN 245354-67-0 CAPLUS

CN Poly[(methylimino)(1-oxo-1,2-ethanediyl)], .alpha.-[2-[[9Z]-9-octadecenyl]amino]-2-oxoethyl]-.omega.-(methylamino)- (9CI) (CA INDEX NAME)



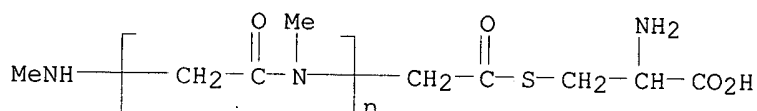
RN 245354-68-1 CAPLUS

CN Poly[(methylimino)(1-oxo-1,2-ethanediyl)], .alpha.-[2-[[[(5S)-5-amino-5-carboxypentyl]amino]-2-oxoethyl]-.omega.-(methylamino)- (9CI) (CA INDEX NAME)



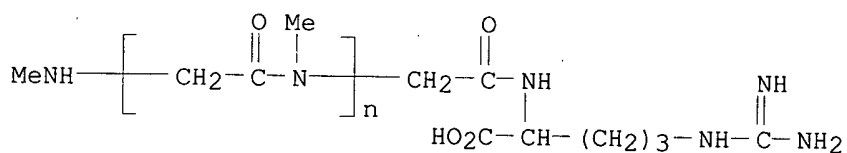
RN 245354-69-2 CAPLUS

CN Poly[(methylimino)(1-oxo-1,2-ethanediyl)], .alpha.-[2-[[[(2R)-2-amino-2-carboxyethyl]thio]-2-oxoethyl]-.omega.-(methylamino)- (9CI) (CA INDEX NAME)



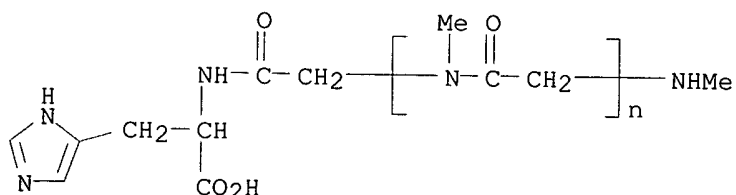
RN 245354-70-5 CAPLUS

CN Poly[(methylimino)(1-oxo-1,2-ethanediyl)], .alpha.-[2-[[[(1S)-4-[(aminoiminomethyl)amino]-1-carboxybutyl]amino]-2-oxoethyl]-.omega.-(methylamino)- (9CI) (CA INDEX NAME)



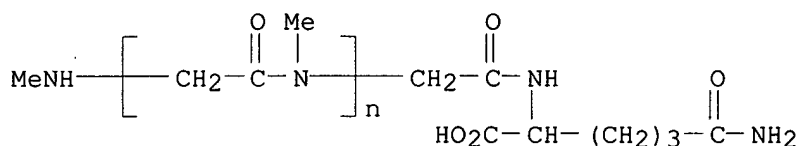
RN 245354-72-7 CAPLUS

CN Poly[(methylimino)(1-oxo-1,2-ethanediyl)], .alpha.-[2-[[[(1S)-1-carboxy-2-(1H-imidazol-4-yl)ethyl]amino]-2-oxoethyl]-.omega.-(methylamino)- (9CI) (CA INDEX NAME)



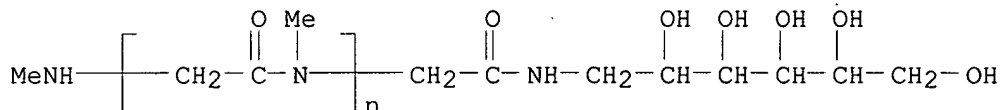
RN 245354-73-8 CAPLUS

CN Poly[(methylimino)(1-oxo-1,2-ethanediyl)], .alpha.-[2-[[[(1S)-5-amino-1-carboxy-5-oxopentyl]amino]-2-oxoethyl]-.omega.-(methylamino)- (9CI) (CA INDEX NAME)



RN 245354-74-9 CAPLUS

CN Poly[(methylimino)(1-oxo-1,2-ethanediyl)], .alpha.-[2-[(1-deoxy-D-glucitol-1-yl)amino]-2-oxoethyl]-.omega.-(methylamino)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L55 ANSWER 7 OF 18 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1995:214136 CAPLUS

DOCUMENT NUMBER: 122:142534

TITLE: Aerosol formulation containing an ester-, amide-, or mercapto ester-derived dispersing aid

INVENTOR(S): Duan, Daniel C.; Stefely, James S.; Schultz, David W.; Leach, Chester L.

PATENT ASSIGNEE(S): Minnesota Mining and Mfg. Co., USA

SOURCE: PCT Int. Appl., 64 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9421229	A1	19940929	WO 1994-US2841	19940316
W: AU, CA, JP, KR, NZ				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2156408	AA	19940924	CA 1994-2156408	19940316
AU 9464468	A1	19941011	AU 1994-64468	19940316
AU 679511	B2	19970703		
EP 689424	A1	19960103	EP 1994-912238	19940316
EP 689424	B1	19981014		
R: BE, CH, DE, ES, FR, GB, IT, LI, NL, SE				
JP 08507793	T2	19960820	JP 1994-521210	19940316
ES 2122261	T3	19981216	ES 1994-912238	19940316
PRIORITY APPLN. INFO.:			US 1993-32146	19930317
			WO 1994-US2841	19940316

AB A medicinal aerosol formulation contains a particulate drug, a propellant, and a dispersing aid comprising a chain of units derived from a hydroxy acid, a mercapto acid, or an amino acid. Thus, 50 mg micronized pirbuterol acetate was placed in a glass aerosol vial together with glass beads and 50 g propellant HFC 227 contg. 0.05 wt.% acetyloligo(DL-lactic acid) (d.p. 8.2; prepn. given) and dispersed by shaking on a paint shaker for 10 min prior to storage. At the time of use, the vial was shaken by hand; flocculation did not begin until .gtoreq.10 s later.

IT 25951-24-0, Polysarcosine 26521-10-8, Polysarcosine

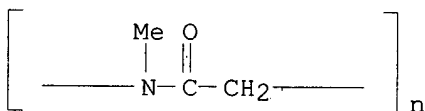
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(dispersant; aerosol pharmaceutical formulation contg. ester-, amide-,

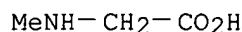
or mercapto ester-derived dispersing aid)  
 RN 25951-24-0 CAPLUS  
 CN Glycine, N-methyl-, homopolymer (9CI) (CA INDEX NAME)  
 CM 1  
 CRN 107-97-1  
 CMF C3 H7 N O2

MeNH-CH<sub>2</sub>-CO<sub>2</sub>H

RN 26521-10-8 CAPLUS  
 CN Poly[(methylimino)(1-oxo-1,2-ethanediyl)] (9CI) (CA INDEX NAME)

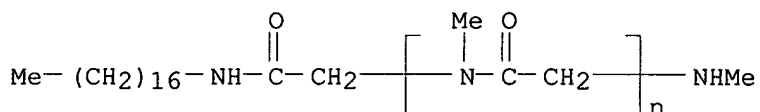


L55 ANSWER 8 OF 18 CAPLUS COPYRIGHT 2003 ACS on STN  
 ACCESSION NUMBER: 1989:218763 CAPLUS  
 DOCUMENT NUMBER: 110:218763  
 TITLE: Liquid crystalline phases and emulsifying properties  
 of block copolymer hydrophobic aliphatic and  
 hydrophilic peptidic chains  
 AUTHOR(S): Gallot, Bernard; Hassan, Hussein Haj  
 CORPORATE SOURCE: Cent. Biophys. Mol., Orleans, 45071, Fr.  
 SOURCE: ACS Symposium Series (1989), 384 (Polym. Assoc.  
 Struct.), 116-28  
 CODEN: ACSMC8; ISSN: 0097-6156  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 AB Amphiphilic lipopeptides with a hydrophobic paraffin chain contg. 12 to 18  
 C atoms and a hydrophilic peptide chain exhibit lyotropic mesophases and  
 good emulsifying properties. The x-ray diffraction study of the  
 mesophases and of dry lipopeptides showed existence of three types of  
 mesomorphic structures: lamellar, cylindrical hexagonal and body-centered  
 cubic. Two types of polymorphism were also identified: one as a function  
 of the length of the peptide chain and the other as a function of the  
 water content of the mesophases. The emulsifying properties of the  
 lipopeptides in numerous pairs of immiscible liqs. such as  
 water/hydrocarbons and water/base products of the cosmetic industry showed  
 that small amts. of lipopeptides easily give three types of emulsions:  
 simple emulsions, miniemulsions and microemulsions.  
 IT 25951-24-0D, alkyl-terminated 92391-51-0  
 118825-78-8 118864-36-1 120468-71-5  
 120468-76-0  
 RL: BIOL (Biological study)  
 (emulsifying properties and liq. cryst. phases of, for cosmetics)  
 RN 25951-24-0 CAPLUS  
 CN Glycine, N-methyl-, homopolymer (9CI) (CA INDEX NAME)  
 CM 1  
 CRN 107-97-1  
 CMF C3 H7 N O2



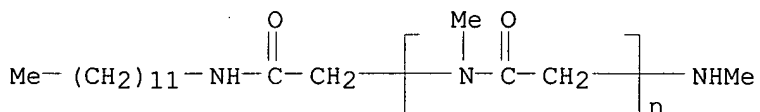
RN 92391-51-0 CAPLUS

CN Poly[(methylimino)(1-oxo-1,2-ethanediyl)], .alpha.-[2-(heptadecylamino)-2-oxoethyl]-.omega.-(methylamino)- (9CI) (CA INDEX NAME)



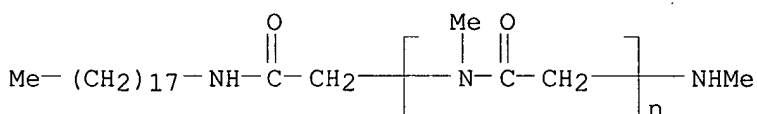
RN 118825-78-8 CAPLUS

CN Poly[(methylimino)(1-oxo-1,2-ethanediyl)], .alpha.-[2-(dodecylamino)-2-oxoethyl]-.omega.-(methylamino)- (9CI) (CA INDEX NAME)



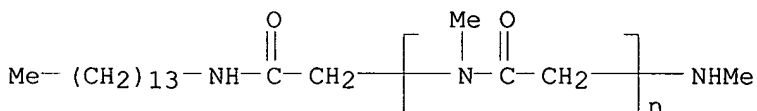
RN 118864-36-1 CAPLUS

CN Poly[(methylimino)(1-oxo-1,2-ethanediyl)], .alpha.-[2-(octadecylamino)-2-oxoethyl]-.omega.-(methylamino)- (9CI) (CA INDEX NAME)



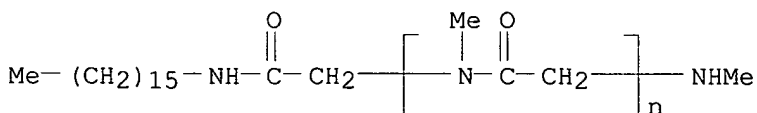
RN 120468-71-5 CAPLUS

CN Poly[(methylimino)(1-oxo-1,2-ethanediyl)], .alpha.-[2-oxo-2-(tetradecylamino)ethyl]-.omega.-(methylamino)- (9CI) (CA INDEX NAME)



RN 120468-76-0 CAPLUS

CN Poly[(methylimino)(1-oxo-1,2-ethanediyl)], .alpha.-[2-(hexadecylamino)-2-oxoethyl]-.omega.-(methylamino)- (9CI) (CA INDEX NAME)



L55 ANSWER 9 OF 18 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1986:440972 CAPLUS

DOCUMENT NUMBER: 105:40972

TITLE: Suppression of murine IgE responses with amino acid

AUTHOR(S): polymer/allergen conjugates. III. Activity in vitro  
Cook, R. M.; Henderson, D. C.; Wheeler, A. W.; Moran,  
D. M.  
CORPORATE SOURCE: Biosci. Res. Cent., Beecham Pharm. Res. Div., Great  
Burgh/Epsom/Surrey, KT18 5XQ, UK  
SOURCE: International Archives of Allergy and Applied  
Immunology (1986), 80(4), 355-60  
CODEN: IAAAAM; ISSN: 0020-5915

DOCUMENT TYPE: Journal  
LANGUAGE: English

AB Conjugates of poly-N-methylglycine (polysarcosine) and grass pollen  
allergen exts., which have been previously shown to suppress murine IgE  
responses, were examd. for their ability to modify lymphocyte activity in  
vitro. Allergen-specific T lymphocytes obtained from Balb/c mice gave a  
reduced response to syngeneic accessory cells pulsed with conjugates of  
polysarcosine-allergen compared with the response found using equiv.  
concns. of native ext. Pretreatment of accessory cells with either  
polysarcosine or polysarcosine-allergen conjugates did not impair their  
subsequent ability to present grass pollen ext. to immune T cells.  
Incubation of allergen-specific spleen cells with polysarcosine-allergen  
conjugates, but not with polysarcosine or allergen alone, resulted in  
specific cell-mediated suppression which reduced proliferation in vitro.  
This activity was sensitive to treatment of cells with anti-T-lymphocyte  
antisera plus complement. Spleen cells obtained from animals immunized  
with allergen and taken 21 days after i.v. treatment with  
polysarcosine-allergen conjugates, a regimen that suppressed IgE antibody  
prodn., did not proliferate in the presence of grass pollen ext. and  
failed to suppress a secondary lymphoproliferative response in vitro.  
Spleen cells obtained from similarly treated animals 3 days after the  
final polysarcosine-allergen injection responded to pollen ext. in culture  
and, addnl., impaired a secondary response. The reduced IgE response  
found in animals treated with polysarcosine-allergen conjugates may be  
due, in part, to the generation of a short-lived antigen-specific T cell  
suppression.

IT 25951-24-0D, allergen conjugates 26521-10-8D, allergen  
conjugates

RL: BIOL (Biological study)

(IgE response to and T-lymphocyte suppression by)

RN 25951-24-0 CAPLUS

CN Glycine, N-methyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

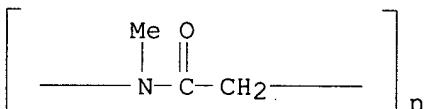
CRN 107-97-1

CMF C3 H7 N O2

MeNH-CH<sub>2</sub>-CO<sub>2</sub>H

RN 26521-10-8 CAPLUS

CN Poly[(methylimino)(1-oxo-1,2-ethanediyl)] (9CI) (CA INDEX NAME)

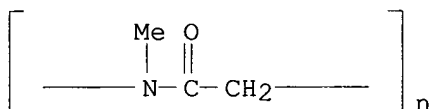


L55 ANSWER 10 OF 18 CAPLUS COPYRIGHT 2003 ACS on STN  
ACCESSION NUMBER: 1986:24167 CAPLUS

Searched by Barb O'Bryen, STIC 308-4291



DOCUMENT NUMBER: 104:24167  
 TITLE: Antithrombogenicity and oxygen permeability of block and graft copolymers of polydimethylsiloxane and poly(.alpha.-amino acid)  
 AUTHOR(S): Kumaki, T.; Sisido, M.; Imanishi, Y.  
 CORPORATE SOURCE: Fac. Eng., Kyoto Univ., Kyoto, 606, Japan  
 SOURCE: Journal of Biomedical Materials Research (1985), 19(7), 785-811  
 CODEN: JBMRBG; ISSN: 0021-9304  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 AB A-B-A-type block copolymers consisting of poly(.alpha.-amino acid) as A component and polydimethylsiloxane as B component and graft copolymers consisting of polydimethyl siloxane as trunk polymer and poly(.alpha.-amino acid) as branch polymer were synthesized. .gamma.-Benzyl-L- or DL-glutamate, .epsilon.-benzyloxycarbonyl L-lysine, and sarcosine were used as .alpha.-amino acids. Different microphase-sepd. structures were found on the film surface according to the copolymer compn. and the casting conditions. In vitro antithrombogenicity test showed higher antithrombogenicity of block or graft copolymers than homopolymers. The best antithrombogenicity was independent of the kind of .alpha.-amino acid and the d.p. of the copolymers. The best ratio was 65-75% in block copolymer and 40-50% in the case of graft copolymer. The oxygen permeability of block and graft copolymer film was intermediate between those of homopolymers and varied with changing the compn. of the copolymer. These expts. showed that the microphase-sepd. structure on the film surface was most important both for the antithrombogenicity and oxygen permeability of these copolymer films.  
 IT 26521-10-8DP, polymers with siloxanes  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (block, prepn. and antithrombogenicity and oxygen permeability of)  
 RN 26521-10-8 CAPLUS  
 CN Poly[(methylinino)(1-oxo-1,2-ethanediyl)] (9CI) (CA INDEX NAME)



L55 ANSWER 11 OF 18 CAPLUS COPYRIGHT 2003 ACS on STN  
 ACCESSION NUMBER: 1985:400318 CAPLUS  
 DOCUMENT NUMBER: 103:318  
 TITLE: Suppression of murine IgE responses with amino acid polymer/allergen conjugates. II. Suppressive activities in adjuvant-induced IgE responses  
 AUTHOR(S): Wheeler, A. W.; Henderson, D. C.; Garman, A. J.; Moran, D. M.  
 CORPORATE SOURCE: Biosci. Res. Cent., Beecham Pharm. Res. Div., Great Burgh/Epsom, KT18 5XQ, UK  
 SOURCE: International Archives of Allergy and Applied Immunology (1985), 76(4), 361-8  
 CODEN: IAAAAM; ISSN: 0020-5915  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 AB Treatment with conjugates of polysarcosine and grass pollen allergen exts. efficiently suppressed the induction of IgE responses in mice. The suppressive activity was shown to be allergen-specific and required covalent linking of the polysarcosine. Inhibitory effects could be overcome by booster injections of native allergen when these were given 3-4 wk after treatment with conjugates. Administration of conjugates had

only marginal effects on established IgE responses. The variance of these results with those of other studies on IgE suppression and the suitability of murine models for investigating reaginic antibody suppression are discussed.

IT 25951-24-0D, pollen conjugate  
RL: BIOL (Biological study)  
(IgE responses suppression with)  
RN 25951-24-0 CAPLUS  
CN Glycine, N-methyl-, homopolymer (9CI) (CA INDEX NAME)  
  
CM 1  
  
CRN 107-97-1  
CMF C3 H7 N O2

MeNH-CH<sub>2</sub>-CO<sub>2</sub>H

L55 ANSWER 12 OF 18 CAPLUS COPYRIGHT 2003 ACS on STN  
ACCESSION NUMBER: 1985:432068 CAPLUS  
DOCUMENT NUMBER: 103:32068  
TITLE: Suppression of murine IgE responses with amino acid polymer/allergen conjugates. I. Preparation of poly(N-methylglycine)/grass pollen extract conjugates using 4-(methylmercapto)phenylsuccinimidyl succinate as coupling reagent  
AUTHOR(S): Whittall, N.; Moran, D. M.; Wheeler, A. W.; Cottam, G. P.  
CORPORATE SOURCE: Biosci. Res. Cent., Beecham Pharm. Res. Div., Great Burgh/Epsom, UK  
SOURCE: International Archives of Allergy and Applied Immunology (1985), 76(4), 354-60  
CODEN: IAAAAM; ISSN: 0020-5915  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
AB A procedure utilizing the latent activating potential of the 4-(methylmercapto)phenyl ester group has been developed for the controlled, reproducible prepn. of macromol. conjugates. This ester, as part of a succinyl-bridging group, was used to couple the water-sol., amino acid polymer, poly(N-methylglycine) (polysarcosine) [25951-24-0], via its N-terminal secondary amine, with the nucleophilic components of the aq. ext. of a mixt. of grass pollens. The products exhibit a reproducible, antigen-specific suppressive effect on the in vivo synthesis of IgE in mice.  
IT 25951-24-0D, pollen conjugate  
RL: BIOL (Biological study)  
(IgE suppression by)  
RN 25951-24-0 CAPLUS  
CN Glycine, N-methyl-, homopolymer (9CI) (CA INDEX NAME)  
  
CM 1  
  
CRN 107-97-1  
CMF C3 H7 N O2

MeNH-CH<sub>2</sub>-CO<sub>2</sub>H

IT 25951-24-0  
RL: RCT (Reactant); RACT (Reactant or reagent)

(coupling of, with (methylmercapto)phenylsuccinimidyl succinate)  
RN 25951-24-0 CAPLUS  
CN Glycine, N-methyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 107-97-1  
CMF C3 H7 N O2

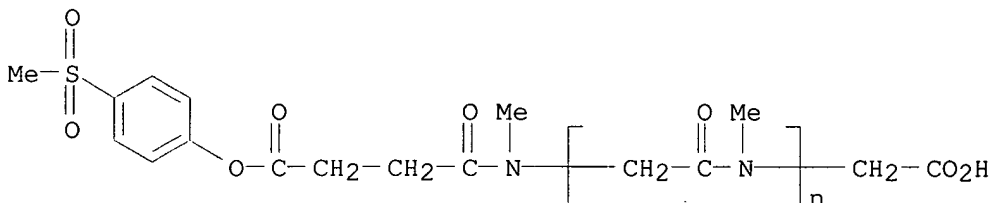
MeNH-CH<sub>2</sub>-CO<sub>2</sub>H

IT 97104-92-2P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(prepn. and conjugation with grass pollen)

RN 97104-92-2 CAPLUS

CN Poly[(methylimino)(1-oxo-1,2-ethanediyl)], .alpha.-(carboxymethyl)-.omega.-  
[methyl[4-[4-(methylsulfonyl)phenoxy]-1,4-dioxobutyl]amino]- (9CI) (CA  
INDEX NAME)

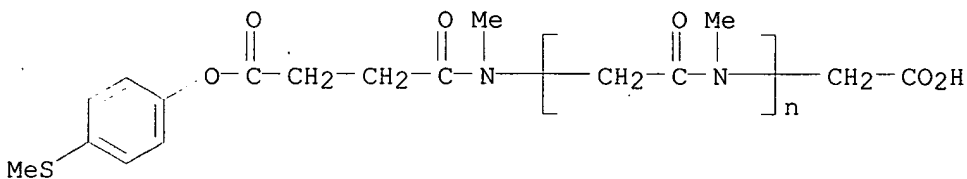


IT 97104-91-1P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)  
(prepn. and sulfoxidn. of)

RN 97104-91-1 CAPLUS

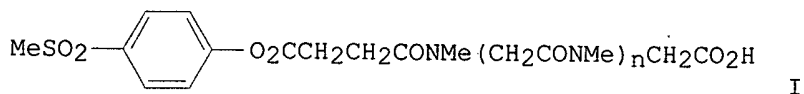
CN Poly[(methylimino)(1-oxo-1,2-ethanediyl)], .alpha.-(carboxymethyl)-.omega.-  
[methyl[4-[4-(methylthio)phenoxy]-1,4-dioxobutyl]amino]- (9CI) (CA INDEX  
NAME)



L55 ANSWER 13 OF 18 CAPLUS COPYRIGHT 2003 ACS on STN  
ACCESSION NUMBER: 1983:443524 CAPLUS  
DOCUMENT NUMBER: 99:43524  
TITLE: Polysarcosine-modified allergens  
INVENTOR(S): Whittall, Neil  
PATENT ASSIGNEE(S): Beecham Group PLC, UK  
SOURCE: Eur. Pat. Appl., 20 pp.  
CODEN: EPXXDW  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 77158	A1	19830420	EP 1982-305249	19821004
R: BE, CH, DE, FR, GB, IT, LI, NL, SE				
AU 8289194	A1	19830414	AU 1982-89194	19821007
ZA 8207348	A	19830831	ZA 1982-7348	19821007
ES 516335	A1	19840601	ES 1982-516335	19821007
JP 58077858	A2	19830511	JP 1982-177479	19821008
PRIORITY APPLN. INFO.:			GB 1981-30625	19811009
			GB 1981-30910	19811013

GI



AB A polysarcosine deriv. (such as I) is bound through its N-terminus to an allergen to suppress the prodn. of IgE antibodies specific to the unmodified allergen. I, prepd. from polysarcosine [25951-24-0] and 4-(methylmercapto)phenyl succinimidyl succinate [86451-38-9] followed by H<sub>2</sub>O<sub>2</sub> oxidn., was coupled to grass pollens, e.g., rye. Suppression of the developing IgE response in mice was demonstrated by the polysarcosine-modified allergens.

IT **25951-24-ODP**, reaction products with methylmercaptophenyl succinimidyl succinate, oxidized, reaction products with allergens

RL: PREP (Preparation)  
(prepn. of, for IgE antibodies prodn. suppression)

RN 25951-24-0 CAPLUS

CN Glycine, N-methyl-, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 107-97-1

CMF C3 H7 N O2

MeNH-CH<sub>2</sub>-CO<sub>2</sub>H

L55 ANSWER 14 OF 18 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1982:50597 CAPLUS

DOCUMENT NUMBER: 96:50597

TITLE: Modified allergens

INVENTOR(S): Garman, Andrew John; Wheeler, Alan

PATENT ASSIGNEE(S): Beecham Group Ltd., UK

SOURCE: Eur. Pat. Appl., 28 pp.  
CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

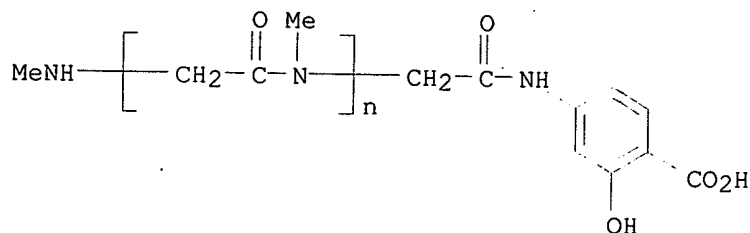
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 38154	A1	19811021	EP 1981-301476	19810406
EP 38154	B1	19830921		
R: BE, CH, DE, FR, GB, IT, NL, SE				
ZA 8102340	A	19820428	ZA 1981-2340	19810408
AU 8169523	A1	19811022	AU 1981-69523	19810414

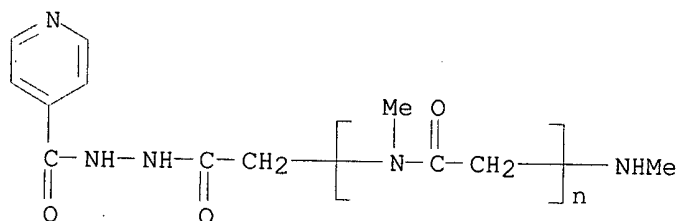
AU 535109            B2    19840301  
ES 501376            A1    19821101            ES 1981-501376    19810414  
CA 1171356           A1    19840724            CA 1981-375432    19810414  
JP 56161332          A2    19811211            JP 1981-56850    19810415  
US 4609547           A    19860902            US 1984-603666    19840426  
PRIORITY APPLN. INFO.:            GB 1980-12294       19800415  
                                      US 1981-254373       19810415  
AB    Polysarcosine of mol. wt. 7500-8500 was linked to ryegrass pollen  
      allergens or ragweed pollen allergen using 2,4-dichloro-6-methoxy-s-  
      triazine as a linking group. The modified allergens obtained suppressed  
      the IgE antibody formation response to immunization with ryegrass pollen  
      in mice.  
IT    **25951-24-ODP**, reaction products with 2,4-dichloro-6-methoxy-S-  
      triazine  
      RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
      (Reactant or reagent)  
      (prepn. and reaction with allergens)  
RN    25951-24-0    CAPLUS  
CN    Glycine, N-methyl-, homopolymer (9CI)    (CA INDEX NAME)  
  
CM    1  
  
CRN   107-97-1  
CMF   C3 H7 N O2

MeNH-CH<sub>2</sub>-CO<sub>2</sub>H

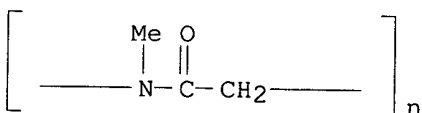
L55   ANSWER 15 OF 18   CAPLUS   COPYRIGHT 2003 ACS on STN  
ACCESSION NUMBER:       1974:569808    CAPLUS  
DOCUMENT NUMBER:       81:169808  
TITLE:                   Biologically active polymers. VII. Synthesis and  
                         study of tuberculostatic action of poly- and  
                         copolypeptides, containing tubazid or  
                         p-aminosalicylic acid  
AUTHOR(S):               Agadzhanian, Ts. E.; Karagezian, S. G.; Sarafian, V.  
                         G.  
CORPORATE SOURCE:       Inst. Tonkoi Org. Khim. im. Mndzhoyana, Erevan, USSR  
SOURCE:                   Armyanskii Khimicheskii Zhurnal (1974), 27(3), 244-9  
                         CODEN: AYKZAN; ISSN: 0515-9628  
DOCUMENT TYPE:           Journal  
LANGUAGE:               Russian  
GI    For diagram(s), see printed CA Issue.  
AB    Polymn. of N-carboxyanhydrides and copolymn. of a mixt. of two  
      N-carboxyanhydrides of amino acids in the presence of tubazide or  
      p-aminosalicylic acid gave some polypeptides and copolypeptides, I and II  
      (R = poly- or copolypeptide residues), some of which possess  
      antituberculosis activity in vitro.  
IT    **54006-84-7P 54006-85-8P**  
      RL: **BAC (Biological activity or effector, except adverse)**; BSU  
      (Biological study, unclassified); SPN (Synthetic preparation); **THU**  
      (**Therapeutic use**); BIOL (Biological study); PREP (Preparation); USES  
      (Uses)  
      (prepn. and tuberculostatic activity of)  
RN    54006-84-7    CAPLUS  
CN    Poly[(methylimino)(1-oxo-1,2-ethanediyl)], .alpha.-[2-[(4-carboxy-3-  
      hydroxyphenyl)amino]-2-oxoethyl]-.omega.-(methylamino)- (9CI)    (CA INDEX  
      NAME)



RN 54006-85-8 CAPLUS  
 CN Poly[(methylimino)(1-oxo-1,2-ethanediyl)], .alpha.-[2-oxo-2-[2-(4-pyridinylcarbonyl)hydrazino]ethyl]-.omega.-(methylamino)- (9CI) (CA INDEX NAME)



L55 ANSWER 16 OF 18 CAPLUS COPYRIGHT 2003 ACS on STN  
 ACCESSION NUMBER: 1973:546878 CAPLUS  
 DOCUMENT NUMBER: 79:146878  
 TITLE: Biologically active polymers. III. Synthesis of poly- and copolypeptides containing fragments of local anesthetics  
 AUTHOR(S): Aghadzhanyan, Ts. E.; Ablabutyan, A. Kh.; Vlasenko, E. V.; Gasparyan, A. A.  
 CORPORATE SOURCE: Inst. Tonkoi Org. Khim. im. Mndzhoyana, Erevan, USSR  
 SOURCE: Armyanskii Khimicheskii Zhurnal (1973), 26(5), 388-94  
 CODEN: AYKZAN; ISSN: 0515-9628  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Russian  
 AB Polypeptides of DL-alanine and sarcosine, as well as copolypeptides of DL-alanine and glycine, DL-valine, DL-leucine, DL-norleucine or sarcosine, attached to anesthetics, novocaine, or dicaine by an amide linkage were prepd. in dioxane by polymn. of N-carboxy anhydrides of the corresponding amino acids in the presence of the anesthetics. Some of the products had weak analgesic activity.  
 IT 26521-10-8P  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation) (prepn. and biol. activity of)  
 RN 26521-10-8 CAPLUS  
 CN Poly[(methylimino)(1-oxo-1,2-ethanediyl)] (9CI) (CA INDEX NAME)



L55 ANSWER 17 OF 18 USPATFULL on STN

ACCESSION NUMBER: 2001:211943 USPATFULL

TITLE: Use of polyamino acid derivatives to treat seborrhoea and the associated **skin** disordersINVENTOR(S): Philippe, Michel, Wissous, France  
Cupferman, Sylvie, L'Hay Les Roses, France

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2001043935	A1	20011122
	US 2002164360	A9	20021107
APPLICATION INFO.:	US 2001-770473	A1	20010129 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	FR 2000-1210	20000128
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P., 1300 I Street, N.W., Washington, DC, 20005-3315	
NUMBER OF CLAIMS:	59	
EXEMPLARY CLAIM:	1	
LINE COUNT:	867	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Processes for treatment of at least one condition chosen from seborrhoea of the **skin** and scalp, disorders associated with seborrhoea, and disorders associated with microorganisms of the genus *Propionibacterium* comprising applying to an area in need of said treatment at least one compound chosen from certain polyamino acid derivatives. Processes for the manufacture of a composition for treatment of at least one condition chosen from seborrhoea of the **skin** and scalp, disorders associated with seborrhoea, and disorders associated with microorganisms of the genus *Propionibacterium*, said process comprising including in said composition at least one certain polyamino acid derivative. Anti-seborrhoeic and anti-acne compositions comprising at least one certain polyamino acid derivative.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 367910-37-0P

(use of polyamino acid derivs. for treatment of seborrhea and related **skin** disorders)

RN 367910-37-0 USPATFULL

L55 ANSWER 18 OF 18 USPATFULL on STN

ACCESSION NUMBER: 2001:194399 USPATFULL

TITLE: Use of polyamino acid derivatives as preserving agents, compositions comprising them and preserving process using them

INVENTOR(S): Philippe, Michel, Wissous, France  
Benard, Sylvie, Attainville, France  
Cupferman, Sylvie, L'Hay Les Roses, France

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2001036914	A1	20011101
	US 6585962	B2	20030701
APPLICATION INFO.:	US 2001-770472	A1	20010129 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	FR 2000-1208	20000128
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	

LEGAL REPRESENTATIVE: Thomas L. Irving, FENNEGAN, HENDERSON, FARABOW,,  
GARRETT & DUNNER, L.L.P., 1300 I Street, N.W.,  
Washington, DC, 20005-3315

NUMBER OF CLAIMS: 55

EXEMPLARY CLAIM: 1

LINE COUNT: 855

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Processes for preserving compositions, such as **cosmetic** and  
dermatological compositions, which may be intended for topical  
applications, through the use of at least one certain polyamino acid  
derivatives. **Cosmetic** and pharmaceutical compositions  
comprising at least one certain polyamino acid derivatives ##STR1##

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 367922-61-0P 367922-62-1P 367922-63-2P

367922-64-3P

(use of polyamino acids as preservatives in **cosmetics** and  
pharmaceuticals)

RN 367922-61-0 USPATFULL

RN 367922-62-1 USPATFULL

RN 367922-63-2 USPATFULL

RN 367922-64-3 USPATFULL

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DICTIONARY FILE UPDATES: 29 OCT 2003 HIGHEST RN 610749-29-6

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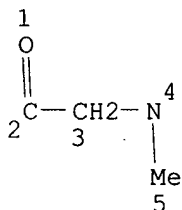
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Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

L6 985271 SEA FILE=REGISTRY ABB=ON PMS/CI  
L8 STR



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DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 5

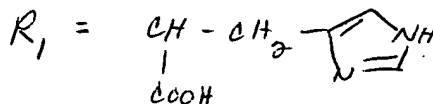
STEREO ATTRIBUTES: NONE

L10 358 SEA FILE=REGISTRY SUB=L6 SSS FUL L8

L11 91 SEA FILE=REGISTRY ABB=ON L10 AND 1/NC

L63 921019 SEA FILE=REGISTRY ABB=ON C3N2/EA

L65 1 SEA FILE=REGISTRY ABB=ON L63 AND L11



=> d ide 165

L65 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2003 ACS on STN

RN 245354-72-7 REGISTRY

CN Poly[(methylimino)(1-oxo-1,2-ethanediyl)], .alpha.-[2-[[[(1S)-1-carboxy-2-(1H-imidazol-4-yl)ethyl]amino]-2-oxoethyl]-.omega.-(methylamino)- (9CI)  
(CA INDEX NAME)

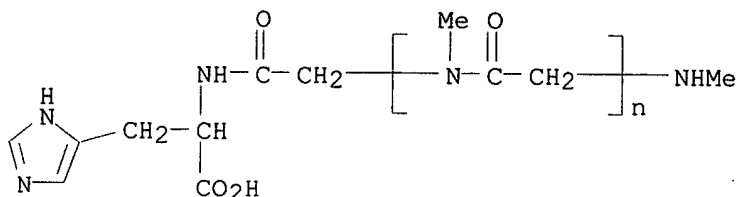
MF (C3 H5 N O)n C9 H14 N4 O3

CI PMS

PCT Polyamide

SR CA

LC STN Files: CA, CAPLUS



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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DOCUMENT NUMBER: 131:276775

TITLE: Poly(amino acid) derivatives and their use in compositions for treating keratinous fibers

INVENTOR(S): Philippe, Michel; Blaise, Christian

PATENT ASSIGNEE(S): L'oreal, Fr.

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CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

FR 2776510 A1 19991001 FR 1998-3965 19980331

FR 2776510 B1 20021129

CA 2324302 AA 19991007 CA 1999-2324302 19990205

AU 9922840 A1 19991018 AU 1999-22840 19990205

EP 1066016 A1 20010110 EP 1999-902604 19990205

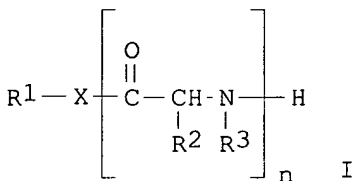
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JP 2002509869 T2 20020402 JP 2000-540804 19990205

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GI



AB The use in a cosmetic compn. of at least a poly(amino acid) of general formula,  $\text{R}^1\text{X}[\text{COCH}(\text{R}^2)\text{N}(\text{R}^3)]_n\text{H}$  (I, X = -O-, -S- or -NR<sup>3</sup>; R<sup>1</sup> = a hydrogen atom or a C1-40 alkyl radical; R<sup>2</sup> = a hydrogen atom or an optionally substituted alkyl radical; R<sup>3</sup> represents a hydrogen atom or an alkyl radical; R<sup>4</sup> = a hydrogen atom or a radical such as NH<sub>2</sub>, OH, SH, -CHOHCH<sub>3</sub>, -CONH<sub>2</sub>; n = >1) such that the poly(amino acid) deriv. mol. wt. ranges between 200 and 200000. The invention also concerns the use of said derivs. for keratinous fiber strengthening and care. A suspension fo 46 g of N-carboxyanhydride sarcosine in 250 mL of toluene was added to a suspension of 8.2 g of (D,L-erythro-threo)-2-aminooctadecane -1,3-diol in 250 toluene under N and heated for 3 h at 80.degree.. To the mixt. was added 200 mL ethanol followed by evapn. of solvent to obtain 34.5 g of I (R<sup>1</sup> = C<sub>15</sub>H<sub>31</sub>CH(OH)CH(CH<sub>2</sub>OH), X = NH, R<sup>2</sup> = H, R<sup>3</sup> = CH<sub>3</sub>, n = 14.2) (II) as a brown powder. A shampoo contained sodium lauryl ether sulfate 60, cocoyl betaine 9, II 0.5, preservative, fragrance, and water q.s. 100 g.

IT 245354-72-7P

RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(poly(amino acid) derivs. and their use in compns. for treating keratinous fibers)

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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